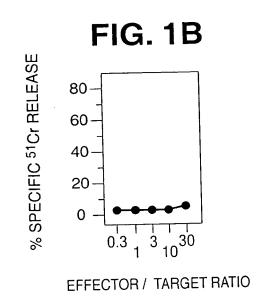
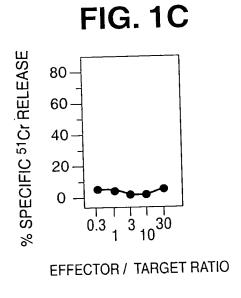
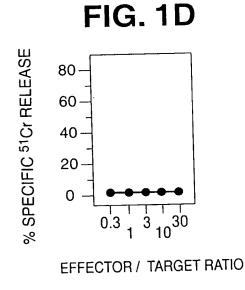
FIG. 1A

80
60
40
20
0.3
1
30

EFFECTOR / TARGET RATIO







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FIG. 2

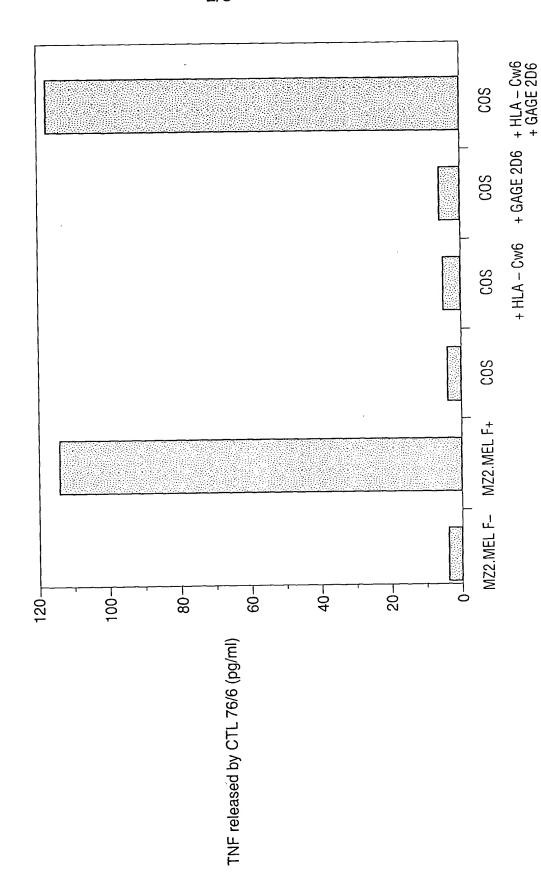
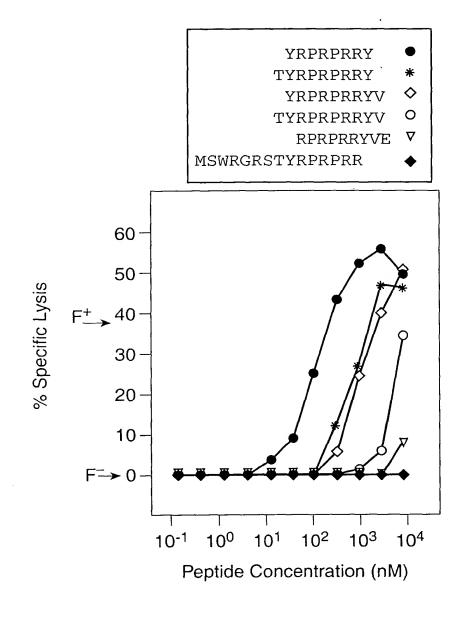


FIG.3



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## FIG. 4A

VDE 44
CTCATATITICACACAGATGAGITIGGCGAGG AAGATCGACCTATTATIGGICTAGGCCCAAT AATAGGTCGAIQTICCTQGCCAACTCATAT
ACGCCAGGGAG CTGTGAGGCAGTGCTGTGTGGTTCCTGCCG TCCGGACTCTTTTTCCTGTAGATTCA

TATCGGCCTAGACCAAGACGC TACGTAGAGCCTCCTGAAATGATTVCTATCGGCCTAGACCAAGACGC TACGTAGAGCCTCCTGAAATGATTVCTATTGATTGATTGAAGAGCGC TATGTAGAGCCTCCTGAAGTGATTV	GAGE-1 TCTGTGTGAAATATGAGTTGGGGAGGAAGA TCGACGTATGGCCTAGACCAAGAGGC TAGGTAGAGCCTCCTGAAATGATTGGGCCTT GAGE-2 TCTGTGTGAAATATGAGTTGGGGAAGA TCGACGTATGGCCTAGACCAAGAGGC TAGGTAGAGCCTCCTGAAATGATTGGGCCT GAGE-3 TTCACACAGATGAATCTCAGTAGAGAAAA TCGACGTATTATTGGCCTAGACCAAGGCGC TATGTAGAGCCTCCTGAAGTGATTGGGCCT 1	GGAGGAAGA TCGACGTATGGCCCTAGACCAAGACGC TAGGTAGAGCCTCCTGAAATGATTGGAGGGAAGA TCGACGCTATGGCCTAGACCAAGACGC TAGGTAGAGACCTCCTGAAATGATTGAGAAATGATTGAAAATGATTGAAAATGATTGAAAAAA	ATGAGTTGGGGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TAGGTAGAGCCTCCTGAAATGATTGATTGAGTTGGGGGGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TAGGTAGAGAGCCTCCTGAAATGATTGAATGACCAGAGGGG TATGTAGAGAGCCTCCTGAAGTGATTGATTGGCCTAGACGAGGCG TATGTAGAGAGCCTCCTGAAGTGATT	GTGTGAAATATGAGTTGGGGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TAGGTAGAGCCTCCTGAAATGATTVGTTGAAATGAATTGAAATGATTV GTGTGAAATATGAGTTGGGGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TATGTAGAGCCTCCTGAAATGATTVACAATTGAAATGATTVAAAATGAATTA	GAGE-1 TCTGTGTGAAATATGAGTTGGGGAAGA TCGACGTATGGCCTAGACCAAGAGG TAGGTAGAGCCTCCTGAAATGATTGGGCCT 1 GAGE-2 TCTGTGTGAAATGATTGGGAGAAGA TCGACGTATGGCCTAGACCAAGAGCG TAGGTAGAAAGAGCCTCCTGAAATGATTGGGCCT 1 GAGE-3 TTCACACAGATGAAGTGAAAAAA TCGACGTATTATTGGCCTAGAACCAAAGCGC TATGTAGAGCCTCCTGAAGTGATTGGGCCT 1
TATCGGCCTAGACCAAGACGC TACGTAGAGCCTCCTTATCGGCCTAGACCAAGACGC TACGTAGAGCCTCCT FATTATTGGCCTAGACCAAGCGC TATGTAGAGCCTCCT	TCGACCTATCGGCCTAGACCAAGACGC TACGTAGAGCCTCCT TCGACCTATCGGCCTAGACCAAGACGC TACGTAGAGCCTCCT TCGACCTATTATTGGCCTAGACCAAGGCGC TATGTAGAGCCTCCT	GGAGGAAGA TCGACC——TATGGCCTAGACCAAGACGC TAGGTAGAGCCTCCT GGAGGAAGA TCGACC——TATGGCCTAGACCAAGACGC TAGGTAGAGCCTCCT AGAGGAAAA TCGACGTATTATTGGCCTAGACCAAGGCGC TATGTAGAGCCTCCT	ATGAGTTGGGGAGGAAGA TCGACGTATCGGCCTAGACCAAGACGC TACGTAGAGCCTCCTATGAGTTGGCCTCCTAAGACGCAAGAAAA TCGACCTATTTTTGGCCTAGACCAAGAGGC TATGTAGAGCCTCCTAATCTCAGTAGAGGCG TATGTAGAGCCTCCTAAAAAAAAAA	GTGTGAAATATGAGTTGGGGAAGAAGA TCGACGTATGGCCTAGACCAAGAGGC TAGGTAGAGCCTTCCT GTGTGAAATATGAGTTGGGGAAGGA TCGACGTATGGCCTAGACCAAGAGGC TAGGTAGAGCCTCCTA ACACAGATGAATCTCAGTAGAGAAAA TCGACGTATTATTGGCCTAGACCAAGGGG TATGTAGAGCCTCCT	1 TCTGTGTGAAATATGAGTTGGGGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TAGGTAGAGCCTCCT 2 TCTGTGTGAAATATGAGTTGGCGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TAGGTAGAGCCTCCT 3 TTCACACAGATGAATCTCAGTAGAGAAAA TCGACGTATTATTGGCCTAGACCAAGGCGC TATGTAGAGCCTCCT
TATCGGCCTAGACCAAGACGC TACGTAC	TCGACCTATCGGCCTAGACCAAGACGC TACGTAC TCGACCTATCGGCCTAGACCAAGACGC TACGTAC	GGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TAGGTAK GGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TAGGTAK AGAGGAAAA TCGACGTATTATTGGCCTAGACCAAGGCGC TATGTAK	ATGAGTTGGGGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TAGGTAGATGGCTAGGCTA	GTGTGAAANATGAGTTGGGGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TAGGTAG GTGTGAAANATGAGTTGGGGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TAGGTAG ACACAGATGAATCTCAGTAGAGGAAAA TCGACGTATTATTGGCCTAGACCAAGGCGC TATGTAG	1 TCTGTGTGAAATATGAGTTGGGGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC TAGGTAG 2 TCTGTGTGAAAATATGAGTTGGGGAGGAAGA TCGACGTATGGCCTAGACCAAGAGGC TAGGTAG 3 TTCACACAGATGAATCTCAGTAGAGGAAAA TCGACGTATTATTGGCCTAGACCAAGGGGG TATGTAG
TATCGCCTAGACCAAGACGC TATCGGCCTAGACCAAGACGC FATTATGCCTAGACCAAGGCGC	TCGACC TATCGCCCTAGACCAAGACGC TCGACC TATCGCCCTAGACCAAGACGC TCGACCTATTATTGGCCTAGACCAAGGCGC	GGAGGAAGA TCGACC——TATGGCCTAGACCAAGACGC GGAGGAAGA TCGACC——TATGGCCTAGACCAAGACGC AGAGGAAAA TCGACCTATTTGGCCTAGACCAAGGCGC	ATGAGTTGGGGAGGAAGA TCGACGTATGGGCCTAGACCAAGACGC ATGAGTTGGCGAGGAAGA TCGACGTATGGCCTAGACCAAGACGC	GTGTGAAATATGAGTTGGGGAGGAAGA TCGACGTATGGGCCTAGACCAAGAGGG GTGTGAAATATGAGTTGGGGAGGAAGA TCGACGTATGGGCCTAGACCAAGAGGG ACACAQATGAATCTCAGTAGAGAAAA TCGACGTATTATTGGCCTAGACCAAGGCGC	1 TCTGTGTGAAATATGAGTTGGCGAGGAAGA TCGACCTATCGGCCTAGACCAAGACGC 2 TCTGTGTGAAATATGAGTTGGCGAGGAAGA TCGACCTATCGGCCTAGACCAAGACGC 3 TTCACACAGATGAATCTCAGTAGAGAAAA TCGACCTATTTTTTTTTT
TATCGCCTAGAC TATCGCCTAGAC FATTATGCCTAGAC	TCGACCTATCGGCCTAGAC TCGACCTATCGGCCTAGAC TCGACCTATTATTGGCCTAGAC	GGAGGAAGA TCGACC——TATCGGCCTAGAC GGAGGAAGA TCGACC——TATCGGCCTAGAC AGAGGAAAA TCGACCTATTATTGGCCTAGAC	ATGAGTTGGGGAGGAAGA TCGACGTATGGGCCTAGACATGAGTTGGCGAGGAAGA TCGACGTATGGCCTAGACAATGTCTCAGTAGAGGAAAA TCGACGTATTATTGGCCTAGAC	GTGTGAAATATGAGTTGGGGAGGAAGA TCGACCTATGGGCCTAGACGTGAGAAGA TCGACCTATGGCCTAGACAACAACAACAACAAAAA TCGACCTATTGGCCTAGAAAAA TCGACGTATTATTGGCCTAGACAAAAAAAAAA	1 TCTGTGTGAAATATGAGTTGGCGAGGAAGA TCGACCTATCGGCCTAGAC 2 TCTGTGTGAAATATGAGTTGGCGAGGAAGA TCGACCTATCGGCCTAGAC 3 TTCACACAQATGAATCTCAGTAGAGAAAA TCGACCTATTATTGGCCTAGAC
TATCG TATCG PATTATTC	TCGACCTATCG TCGACCTATCG TCGACCTATTATTG	GGAGGAAGA TCGACCTATCG GGAGGAAGA TCGACCTATCG AGAGGAAGA TCGACCTATTATTG	ATGAGTTGGGGAGGAAGA TCGACGTATGATGATGAGTTGGGGAGGAAGA TCGACCTATGGAATA TCGACGTATTGATTG	GTGTGAAATATGAGTTGGGGAGGAAGA TCGACGTATCG GTGTGAAATATGAGTTGGCGAGGAAGA TCGACCTATCG ACACAQATGAATCTCAGTAGAGGAAAA TCGACGTATTATTG	1 TCTGTGTGAAATATGAGTTGGCGAGGAAGA TCGACCTATCG 2 TCTGTGTGAAATATGAGTTGGCGAGGAAGA TCGACCTATCG 3 TTCACACAGATGAATCTCAGTAGAGAAAAA TCGACCTATTATTG
	TCGACC TCGACC TCGACC	GGAGGAAGA TCGACC GGAGGAAGA TCGACC AGAGGAAAA TCGACC	ATGAGTTGGCGAGGAAGA TCGACC ATGAGTTGGCGAGGAAGA TCGACC AATCTCAGTAGAGGAAAA TCGACC	GTGTGAAATATQAGTTGGCGAGGAAGA TCGACO GTGTGAAATATQAGTTGGCGAGGAAGA TCGACO ACACAQATGAATCTCAGTAGAGGAAAA TCGACO	1 TCTGTGTGAAATATGAGTTGGCGAGGAAGA TCGACC 2 TCTGTGTGAAATATGAGTTGGCGAGGAAGA TCGACC 3 TTCACACAGATGAATCTCAGTAGAGAGAAAA TCGACC

GCAACTCAACGTCAGGATCCTGCAGCTGCT GCAACTCAACGTCAGGATCCTGCAGCTGCT GCAACTCAACGTCAGGATCCTGCAGCTGCT GCAACTCAACGTCAGGATCCTGCAGCTGCT GCAACTCAACGTCAGGATCCTGCAGCTGCT GCAACTCAACGTCAGGATCCTGCAGCTGCT GAACCAGCAACACCTGAAGAAGGGGAACCA GAACCAGCAACACCTGAAGAAGGGGAACCA GAACCAGCAACACCTGAAGAAGGGGAACCA GAACCAGCAACACCTGAAGAAGGGGAACCA GAACCAGCAACACCTGAAGAAGGGGAACCA GAACCAGCAACACCTGAAGAAGGGGAACCA ATGCGGCCCGAGCAGTTCAGTGATGAAGTG ATGCGGCCCGAGCAGTTCAGTGATGAAGTG ATGCGGCCCGAGCAGTTCAGTGATGAAGTG ATGCGGCCCGAGCAGTTCAGTGATGAAGTG ATGCGGCCCGAGCAGTTCAGTGATGAAGTG ATGCGGCCCGAGCAGTTCAGTGATGAAGTG GAGE-6 GAGE-4 GAGE-2 GAGE-3 GAGE-5 GAGE-1

VDE 43

GAGE-1	CAGGAGGAGGATGAGGGAGCATCTGCA	GGTCAAGGCCCGAAGCCTGAAGCTGATAGC	GAGE-1   CAGGAGGAGGAGGATGAGGGAGCATCTGCA GGTCAAGGGCCCGAAGCCTGAAGCT	ო
GAGE-2	CAGGAGGAGGATGAGGGAGCATCTGCA	GGTCAAGGGCCGAAGCCTGAAGCTQATAGC	GAGE-2   CAGGAGGGAGGAGGATGAGGGAGCATCTGCA GGTCAAGGGCCCGAAGCCTGAAGCT	ᡣ
GAGE-3	CAGGAGGAGGATGAGGGAGCATCTGCA	GGTCAAGGGCCGAAGCCTGAAGCTGATAGC	GAGE-3   CAGGAGGAGGAGGATGAGGGAGCATCTGCA GGTCAAGGGCCCGAAGCCTGAAGCTQATAGC CAGGAACAGGGTCACCCACAGACTGGGTGT 3	m
GAGE-4	CAGGAGGAGGATGAGGGAGCATCTGCA	GGTCAAGGGCCGAAGCCTGAAGCTGATAGC	caggagggagaggaggargaaggaarcrgca ggrcaagggccgaagccrgaagcrparacc caggaacagggrcacccacagacrgggrgr 3	ო
GAGE-5	CAGGAGGAGGATGAGGGAGCATCTGCA	GGTCAAGGCCGAAGCCTGAAGCTGATAGC	GAGE-5   CAGGAGGGAGGAGGATGAGGGAGCATCTGCA GGTCAAGGGCCCGAAGCCTGAAGCTGATAGC CAGGAACAGGGTCACCCACAGACTGGGGTGT 3	ო
GAGE-6	CAGGAGGAGGATGAGGGAGCATCTGCA	GGTCAAGGGCCGAAGCCTGAAGCTGATAGC	GAGE-6   CAGGAGGGAGGATGAGGGAGCATCTGCA GGTCAAGGGCCCGAAGCCTGAAGCT  GATAGC CAGGAACAGGGTCACCCACAGACTGGGTGT   3	m

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ACGCCTGAAGAAGATGAGGTCTCACTAT ACGCCTGAAGAAGACGCCTGAAGAAG	ACGCCTGAAGAAG		AGAAGACATGCTGAAATGTTGCAGGCTGCT AGAAGACACGTTGAAATGATGCAGGCTGCT AGAAGGCACGTTGAAATGATGCAGGCTGCT AGAAGGCACGTTGAAATGATGCAGGCTGCT AGAAGGCACGTTGAAATGATGCAGGCTGCT AGAAGACACGTTGAAATGATGCAGGCTGCT	GAAAAAAAAAA GAAAAAAAAAA GAAAAAAAAAA AAAAAA
ATGGACCCGCCAAATCCAGAGGAGGTGAAA ATGGACCCGCCAAATCCAGAGGAGGTGAAA ATGGACCCGCCAAATCCAGAGGAGGTGAAA ATGGACCCGCCAAATCCAGAGGGGGTGAAA	GTGGACCCGCCAAATCCAGAGGAGGTGAAA ATGAACAATTGCTTCTTAAATCTTTCCCCA		TGGCATGTGAAGGGCAATCACAGTGTTAAAGTGAAAAGCAATCACAGTGTTAAAGTGAAAAGCAATCACAGTGTTAAAGTGAAAAGCAATCACAGTGTTAAAGTGAAAAGCAATCACAGTGTTAAAGTGAAAAGCAATCACAGTGTTAAA	TCCCAATAAAGCTTTACAGCCTTCTGCAAA TCCCAATAAAGCTTTACAGCCTTCTGCAAA TCCCAATAAAGCTTTACAGCCTTCTGCAAA TCCCAATAAAGCTTTACAGCCTTCTGCAAA TCCCAATAAAGCTTTACAGCCTTCTGCAAA
GAGTGTGAAGATGGTCCTGATGGGCAGGAG GAGTGTGAAGATGGTCCTGATGGGCAGGAG GAGTGTGAAGATGGTCCTGATGGGCAGGAG GAGTGTGAAGATGGTCCTGATGGGCAGGAG	GAGTGTGAAGATGGTCCTGATGGGCAGGAG		GGCGAGACCGTTTAGTTCCTATCATCTG	CCTATGTTGGAAAITTCTTCATTGAAGTTC CCTATGTTGGAAAITTGTTCATTAAAAITTC CCTATGTTGGAAAITTGTTCATTAAAAITTC CCTATGTTGGAAAITTGTTCATTAAAAITTC CCTATGTTGGAAAITTGTTCATTAAAAITTC CCTATGTTGGAAAITTTGTTTCATTAAAAITTC CCTATGTTGGAAAITTTGTTTCATTAAAAITTC
GAGE-1 GAGE-2 GAGE-3 GAGE-4 GAGE-5	GAGE-6 GAGE-1	GAGE-2 GAGE-3 GAGE-4 GAGE-5 GAGE-6	GAGE-1 GAGE-2 GAGE-3 GAGE-4 GAGE-5 GAGE-5	GAGE-1 GAGE-2 GAGE-3 GAGE-4 GAGE-5 GAGE-5

 $\Gamma$ 

Antigenic Peptide

	·
RQDPAAAQEGEDEGASAGQGPKPEA RQDPAAAQEGEDEGASAGQGPKPEA RQDPAAAQEGEDEGASAGQGPKPEA RQDPAAAQEGEDEGASAGQGPKPEA RQDPAAAQEGEDEGASAGQGPKPEA RQDPAAAQEGEDEGASAGQGPKPEA	LLMNNCFLMLSPRKP
-YRPRPRRYVEPPEMI GPMRPEQFSDEVEPATPEEGEPATQ RQDPAAAQEGEDEGASAGQGPKPEA-YRPRPRRYVEPPEMI GPMRPEQFSDEVEPATPEEGEPATQ RQDPAAAQEGEDEGASAGQGPKPEAYYWPRPRRYVQPPEMI GPMRPEQFSDEVEPATPEEGEPATQ RQDPAAAQEGEDEGASAGQGPKPEAYYWPRPRRYVQPPEMI GPMRPEQFSDEVEPATPEEGEPATQ RQDPAAAQEGEDEGASAGQGPKPEAYYWPRPRRYVQPPEMI GPMRPEQFSDEVEPATPEEGEPATQ RQDPAAAQEGEDEGASAGQGPKPEAYYWPRPRRYVQPPEMI GPMRPEQFSDEVEPATPEEGEPATQ RQDPAAAQEGEDEGASAGQGPKPEAYYWPRPRRYVQPPEMI GPMRPEQFSDEVEPATPEEGEPATQ RQDPAAAQEGEDEGASAGQGPKPEA	TGCECEDGPDGQEMDP PNPEEVKTPEEEMRSHYVAQTGILW LLMNNCFLMLSPRKP TGCECEDGPDGQEMDP PNPEEVKTPEEGEKQSQC TGCECEDGPDGQEMDP PNPEEVKTPEEGEKQSQC TGCECEDGPDGQEMDP PNPEEVKTPEEGEKQSQC
MS-WRGRST MS-WRGRST MNLSRGKST MS-WRGRST MS-WRGRST MS-WRGRST	1 GSQEQGHPQTGCECEDGPDGQEMDP PNPEEVKTPEEEMRSHYVAQTGI HSQEQGHPQTGCECEDGPDGQEMDP PNPEEVKTPEEGEKQSQC BSQEQGHPQTGCECEDGPDGQEMDP PNPEEVKTPEEGEKQSQC DSQEQGHPQTGCECEDGPDGQEMDP PNPEEVKTPEEGEKQSQC DSQEQGHPQTGCECEDGPDGQEMDP PNPEEVKTPEEGEKQSQC
GAGE-1 GAGE-2 GAGE-4 GAGE-4 GAGE-5 GAGE-5	GAGE-1 GAGE-2 GAGE-3 GAGE-4 GAGE-5

FIG. 6

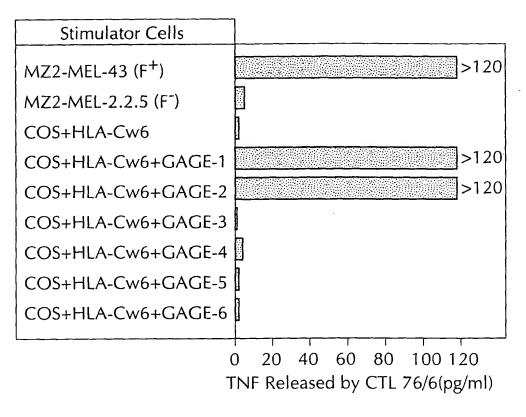
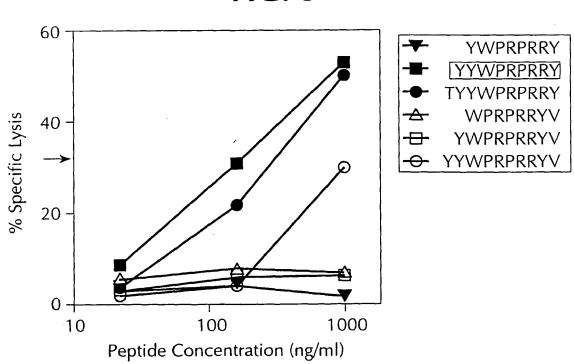


FIG. 8



OSTAL BITHE

Stimulator Cells	5
MZ2-MEL.43	>120
SOO	
COS + HLA-A29	
COS + HLA-A29 + MAGE-1	
COS + HLA-A29 + MAGE-2	
COS + HLA-A29 + MAGE-3	
COS + HLA-A29 + MAGE-4	
COS + HLA-A29 + MAGE-12	
COS + HLA-A29 + BAGE	
COS + HLA-A29 + GAGE-1	
COS + HLA-A29 + GAGE-2	
COS + HLA-A29 + GAGE-3	>120
COS + HLA-A29 + GAGE-4	>120
COS + HLA-A29 + GAGE-5	>120
COS + HLA-A29 + GAGE-6	>120

TNF Released by CTL 76/6(pg/ml)

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